

Form PTO-1449 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		U.S. Department of Commerce Patent and Trademark Office							Atty. Docket No. P23688	Serial No. 10/646,908	 MAY 17 2004 PATENT & TRADEMARK OFFICE		
		Applicant Hiroshi NOMURA											
		Filing Date August 25, 2003							Group 2873				
U.S. PATENT DOCUMENTS													
EXAMINER INITIAL		DOCUMENT NUMBER					DATE	NAME		CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
<i>LL</i>	2004 / 0	0	4	2	0	9	5	03/04/04	NOMURA				
<i>LL</i>	2004 / 0	0	4	2	0	9	3	03/04/04	NOMURA				
<i>LL</i>	2004 / 0	0	6	2	5	3	6	04/01/04	NOMURA				
<i>LL</i>	2004 / 0	0	5	1	9	6	8	03/18/04	NOMURA				
<i>LL</i>	2004 / 0	0	5	1	9	7	0	03/18/04	NOMURA				
<i>LL</i>	2004 / 0	0	6	2	5	3	7	04/01/04	NOMURA				
<i>LL</i>	2004 / 0	0	5	1	9	7	2	03/18/04	NOMURA				
<i>LL</i>	2004 / 0	0	4	2	0	9	1	03/04/04	NOMURA				
<i>LL</i>	2004 / 0	0	4	2	0	8	9	03/04/04	NOMURA				
<i>LL</i>	2004 / 0	0	5	1	9	7	1	03/18/04	NOMURA				
<i>LL</i>	2004 / 0	0	4	2	7	7	7	03/04/04	NOMURA				
<i>LL</i>	2004 / 0	0	4	2	7	7	8	03/04/04	NOMURA				
<i>LL</i>	2004 / 0	0	5	1	9	6	9	03/18/04	NOMURA				
<i>LL</i>	2004 / 0	0	5	1	9	6	7	03/18/04	NOMURA				
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<i>LL</i>	2004 / 0	0	4	2	0	9	0	03/04/04	NOMURA				
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	4	5	2	5	0	5	0	06/25/85	OHASHI				
	4	6	4	3	5	5	5	02/17/87	WAKABAYASHI				
	4	7	2	1	9	7	2	01/26/88	WAKABAYASHI				
	4	7	9	2	8	2	2	12/20/88	AKIYAMA et al.				
	5	8	1	8	6	4	7	10/06/98	NISHIO et al.				
	6	0	3	1	9	9	8	02/29/00	SHONO				
	4	4	5	1	1	2	9	05/29/84	IKARI et al.				
EXAMINER									DATE CONSIDERED	8/13/04			

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.
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		4	6	4	3	5	5	4	02/17/87	OGAWA	
		4	7	7	1	3	0	3	09/13/88	MATSUMOTO et al.	
		4	8	8	7	1	0	7	12/12/89	NAKAMURA et al.	
		5	1	3	6	3	2	4	08/04/92	TSUBOI et al.	
		5	7	6	5	0	4	9	06/09/98	HASE et al.	
		5	8	3	2	3	2	6	11/03/98	TANAKA	
		6	3	6	6	3	2	3	04/02/02	SHONO	
		6	1	1	5	1	9	0	09/05/00	HIRAI	
		6	0	6	4	5	3	3	05/16/00	KENIN et al.	
	2003	/0	0	8	1	3	2	5	05/01/03	NOMURA et al.	
	2001	/0	0	2	4	5	7	3	09/27/01	NOMURA et al.	
	2002	/0	1	3	5	9	0	0	09/26/02	NOMURA et al.	
		6	0	7	5	6	5	5	06/13/00	FUNAHASHI	
	2002	/0	1	3	5	9	0	1	09/26/02	NOMURA et al.	
	2003	/0	0	8	1	3	2	7	05/01/03	NOMURA et al.	
	2002	/0	1	3	5	8	9	6	09/26/03	NOMURA et al.	
		6	0	5	5	1	1	6	04/25/00	NOMURA et al.	
		6	2	0	4	9	7	7	03/20/01	IWASA	
		5	4	3	0	5	1	6	07/04/95	UZIIE et al.	
	2003	/0	0	8	1	9	4	8	05/01/03	NOMURA et al.	
	2001	/0	0	1	9	4	5	8	09/06/01	NOMURA et al.	
		4	9	9	3	8	1	5	02/19/91	YAMAZAKI et al.	
		5	7	3	1	9	1	3	03/24/98	IMANARI	
		5	7	3	9	9	6	2	04/14/98	ASAKURA et al.	
	2003	/0	1	5	6	8	3	2	08/21/03	NOMURA et al.	
		5	5	8	7	7	5	4	12/24/96	KATAYAMA et al.	
		6	0	5	2	5	3	5	04/18/00	UNO	
EXAMINER								DATE CONSIDERED			8/13/04

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U.S. PATENT DOCUMENTS													
EXAMINER INITIALS		DOCUMENT NUMBER						DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
		5	2	2	3	8	7	3	06/29/93	TSUBOI			
		5	0	8	6	3	1	2	02/04/92	TANAKA et al.			
		5	4	9	9	1	4	3	03/12/96	SAKAMOTO et al.			
		6	0	6	9	7	4	5	05/30/00	FUJII et al.			
		6	3	2	4	0	1	9	11/27/01	TAKANASHI et al.			
		5	4	8	5	3	1	5	01/16/96	NOMURA et al.			
FOREIGN PATENT DOCUMENTS													
		DOCUMENT NUMBER						DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
		58	-	1	4	5	9	3	0	08/31/83	JAPAN		
		61	-	-	6	9	0	0	2	04/09/86	JAPAN		
		61	-	2	7	0	7	3	7	12/01/86	JAPAN		
		63	-	1	4	9	6	2	9	06/22/88	JAPAN		
		64	-	3	4	6	2	3	03/02/89	JAPAN		X	
		6	-	1	8	7	7	7	01/28/94	JAPAN		X	
		7	-	1	9	1	2	4	9	07/28/95	JAPAN		
		11	-	1	0	9	2	0	3	04/23/99	JAPAN		
		58	-	1	0	7	0	8	01/21/83	JAPAN			
		2	3	4	4	6	6	1	06/14/00	UNITED KINGDOM			
		2	2	6	2	3	5	6	06/16/93	UNITED KINGDOM			
		2003	-	2	0	7	7	0	9	07/25/03	JAPAN		
		2	3	0	9	5	5	1	07/30/97	UNITED KINGDOM			
		2	3	4	4	6	6	2	06/14/00	UNITED KINGDOM			
		2	2	6	1	2	9	8	05/12/93	UNITED KINGDOM			
		2002	-	2	7	7	7	1	9	09/25/02	JAPAN		
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FOREIGN PATENT DOCUMENTS												
		DOCUMENT NUMBER				DATE	COUNTRY		CLASS	SUBCLASS	TRANSLATION YES <input type="checkbox"/> NO <input type="checkbox"/>	
<i>LL</i>	10	-	2	8	2	3 9 4	10/23/98	JAPAN				
<i>LL</i>	58	-	1	6	2	9 1 4	09/27/83	JAPAN				
<i>LL</i>		0	6	3	4	6 8 0	01/18/95	E.P.O.				
<i>LL</i>		10	-	3	2	7 4 0	02/03/98	JAPAN			X	
<i>LL</i>	7	-	2	8	8	7 2 4	10/31/95	JAPAN			X	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)												
<i>LL</i>	1	English Language Abstract of JP 58-10708.										
<i>LL</i>	2	English Language Abstract of JP 2003-207709.										
<i>LL</i>	3	English Language Abstract of JP 2002-277719.										
<i>LL</i>	4	English Language Abstract of JP 10-282394.										
<i>LL</i>	5	English Language Abstract of JP 58-162914.										
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